

18. An isolated complement of the polynucleotide of Claim 13, wherein (a) the complement and the polynucleotide consist of the same number of nucleotides, and (b) the nucleotide sequences of the complement and the polynucleotide have 100% complementarity.
19. An isolated nucleic acid molecule that remains hybridized with the isolated polynucleotide of Claim 17 under a wash condition of 0.1X SSC, 0.1% SDS, and 65°C.
20. A cell comprising the polynucleotide of Claim 13.
21. The cell of Claim 20, wherein the cell is selected from the group consisting of a yeast cell, a bacterial cell and a plant cell.
22. A transgenic plant comprising the polynucleotide of Claim 13.
23. A method for transforming a cell comprising introducing into a cell the polynucleotide of Claim 13.
24. A method for producing a transgenic plant comprising (a) transforming a plant cell with the polynucleotide of Claim 13, and (b) regenerating a plant from the transformed plant cell.
25. A method for producing a polynucleotide fragment comprising (a) selecting a nucleotide sequence comprised by the polynucleotide of Claim 13, and (b) synthesizing a polynucleotide fragment containing the nucleotide sequence.
26. The method of Claim 25, wherein the fragment is produced *in vivo*.
27. An isolated 3-dehydroquinase synthase polypeptide having a sequence identity of at least 80% based on the Clustal method compared to an amino acid sequence selected from the group consisting of SEQ ID NOs: 2, 4, 6, and 8.
28. The polypeptide of Claim 27, wherein the sequence identity is at least 85%.
29. The polypeptide of Claim 27, wherein the sequence identity is at least 90%.
30. The polypeptide of Claim 27, wherein the sequence identity is at least 95%.